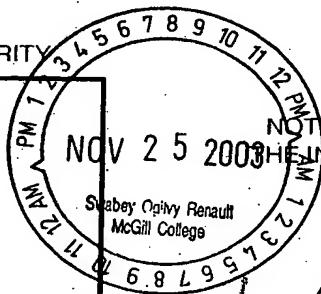


PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: *NBA*  
 OGILVY RENAULT  
 1981 McGill College Avenue,  
 Suite 1600  
 Montréal, Québec H3A 2Y3  
 CANADA



PCT



NOTIFICATION OF TRANSMISSION OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

*AMENDMENTS*  
 DUE ON JAN 20 2004

Date of mailing  
 (day/month/year)

20/11/2003

Applicant's or agent's file reference <b>14149-12PCT</b>	FOR FURTHER ACTION      See paragraphs 1 and 4 below
International application No. <b>PCT/ CA 03/ 01146</b>	International filing date (day/month/year) <b>29/07/2003</b>
Applicant <b>UNIVERSITE LAVAL</b>	

1.  The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO  
 34, chemin des Colombettes  
 1211 Geneva 20, Switzerland  
 Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2.  The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau.

If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer <b>Stefanie Büchler</b>
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## NOTE TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the International application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

**The amendments must be made in the language in which the International application is to be published.**

#### What documents must/may accompany the amendments?

**Letter (Section 205(b)):**

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

**The letter must be in English or French, at the choice of the applicant. However, if the language of the International application is English, the letter must be in English; if the language of the International application is French, the letter must be in French.**

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

**The following examples illustrate the manner in which amendments must be explained in the accompanying letter:**

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:  
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:  
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:  
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or  
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:  
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

**It must be in the language in which the International application is to be published.**

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>14 149-12 PCT</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, Item 5 below.	
International application No. <b>PCT/ CA 03/ 01146</b>	International filing date (day/month/year) <b>29/07/2003</b>	(Earliest) Priority Date (day/month/year) <b>29/07/2002</b>
Applicant <b>UNIVERSITE LAVAL</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of **4** sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
  - contained in the international application in written form.
  - filed together with the international application in computer readable form.
  - furnished subsequently to this Authority in written form.
  - furnished subsequently to this Authority in computer readable form.
  - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
  - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2.  Certain claims were found unsearchable (See Box I).

3.  Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

None of the figures.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT 03/01146

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C12N15/82 C12N9/50

A23L1/29

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, BIOSIS, MEDLINE, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 11198 A (DU PONT ;FADER GARY M (US)) 2 March 2000 (2000-03-02) page 1, line 15 –page 4, line 4 ---	
A	WO 98 20133 A (PIONEER HI BRED INT ;RAO ARAGULA GURURAJ (US); ROESLER KEITH R (US)) 14 May 1998 (1998-05-14) page 3, line 8-19 --- -/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

6 November 2003

Date of mailing of the international search report

20/11/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Bilang, J

## INTERNATIONAL SEARCH REPORT

International Application No

PCT [REDACTED] 03/01146

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	BRUNELLE FRANCE ET AL: "Protein hydrolysis by Colorado potato beetle, <i>Leptinotarsa decemlineata</i> , digestive proteases: The catalytic role of cathepsin D" ARCHIVES OF INSECT BIOCHEMISTRY AND PHYSIOLOGY, vol. 42, no. 1, September 1999 (1999-09), pages 88-98, XP009020502 ISSN: 0739-4462 the whole document	
A	TREMBLAY G F ET AL: "Proteolysis in alfalfa silages made from different cultivars" CANADIAN JOURNAL OF PLANT SCIENCE, vol. 81, no. 4, October 2001 (2001-10), pages 685-692, XP009020518 ISSN: 0008-4220 the whole document	
A	CHARMLEY E ET AL: "INHIBITION OF PROTEOLYSIS AT HARVEST USING HEAT IN ALFALFA SILAGES EFFECTS ON SILAGE COMPOSITION AND DIGESTION BY SHEEP" JOURNAL OF ANIMAL SCIENCE, vol. 68, no. 3, 1990, pages 758-766, XP002260410 ISSN: 0021-8812 the whole document	
P,A	US 2002/108149 A1 (JUNG RUDOLF ET AL) 8 August 2002 (2002-08-08) the whole document	

# INTERNATIONAL SEARCH REPORT

## Information on patent family members

International Application No.

PCT/03/01146

Patent document cited in search report	Publication-date		Patent family member(s)	Publication date
WO 0011198	A 02-03-2000	AU	5394499 A	14-03-2000
		CA	2333915 A1	02-03-2000
		CN	1313904 T	19-09-2001
		EP	1104478 A1	06-06-2001
		WO	0011198 A1	02-03-2000
		US	6548744 B1	15-04-2003
WO 9820133	A 14-05-1998	AU	728086 B2	04-01-2001
		AU	5174998 A	29-05-1998
		EP	0946729 A2	06-10-1999
		HU	0000810 A2	28-06-2000
		WO	9820133 A2	14-05-1998
US 2002108149	A1 08-08-2002	NONE		

**PCT REQUEST**

Original (for SUBMISSION) - printed on 29.07.2003 12:05:57 PM

0	For receiving Office use only	
0-1	International Application No.	PCT/CA 03 / 01143
0-2	International Filing Date	29 JULY 2003 29.07.03
0-3	Name of receiving Office and "PCT International Application"	RO/CA
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.04.2003)
0-5	Petition	The undersigned requests that the present International application be processed according to the Patent Cooperation Treaty
0-6	Receiving Office (specified by the applicant)	Canadian Patent Office (RO/CA)
0-7	Applicant's or agent's file reference	14149-12PCT
I	Title of invention	METHOD FOR ENHANCING THE NUTRITIVE VALUE OF PLANT EXTRACT
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	UNIVERSITÉ LAVAL
II-5	Address:	Cité universitaire Québec, Québec G1K 7P4 Canada
II-6	State of nationality	CA
II-7	State of residence	CA
II-8	Telephone No.	(418) 656-2131 ext. 12291
II-9	Facsimile No.	(418) 656-2506
III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	MICHAUD, Dominique
III-1-5	Address:	965 avenue Bégin Québec, Québec G1S 3J3 Canada
III-1-6	State of nationality	CA
III-1-7	State of residence	CA

**PCT REQUEST**

14149-12PCT

Original (for SUBMISSION) - printed on 29.07.2003 12:05:57 PM

<b>III-2</b>	<b>Applicant and/or Inventor</b>	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	RIVARD, Daniel
III-2-5	Address:	3686 rue Pélissier, apt. 23 Sainte-Foy, Québec G1X 3W8 Canada
III-2-6	State of nationality	CA
III-2-7	State of residence	CA
<b>III-3</b>	<b>Applicant and/or Inventor</b>	
III-3-1	This person is:	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	ANGUENOT, Raphaël
III-3-5	Address:	3065 rue Lemieux Québec, Québec G1P 4N6 Canada
III-3-6	State of nationality	CA
III-3-7	State of residence	CA
<b>III-4</b>	<b>Applicant and/or Inventor</b>	
III-4-1	This person is:	applicant and inventor
III-4-2	Applicant for	US only
III-4-4	Name (LAST, First)	TRÉPANIER, Sonia
III-4-5	Address:	314 rue de la Seine Saint-Nicolas, Québec G7A 2P8 Canada
III-4-6	State of nationality	CA
III-4-7	State of residence	CA
<b>III-5</b>	<b>Applicant and/or Inventor</b>	
III-5-1	This person is:	applicant and inventor
III-5-2	Applicant for	US only
III-5-4	Name (LAST, First)	VÉZINA, Louis-Philippe
III-5-5	Address:	206 route 138 Neuville, Québec G0A 2R0 Canada
III-5-6	State of nationality	CA
III-5-7	State of residence	CA
<b>III-6</b>	<b>Applicant and/or Inventor</b>	
III-6-1	This person is:	applicant and inventor
III-6-2	Applicant for	US only
III-6-4	Name (LAST, First)	BRUNELLE, France
III-6-5	Address:	1309 avenue de la Ronde Québec, Québec G1J 4C1 Canada
III-6-6	State of nationality	CA
III-6-7	State of residence	CA

## PCT REQUEST

14149-12PCT

Original (for SUBMISSION) - printed on 29.07.2003 12:05:57 PM

IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: Name Address:	agent  OGILVY RENAULT Suite 1600 1981 McGill College Avenue Montréal, Québec H3A 2Y3 Canada 514-845-7126 514-288-8389 swabey@ogilvyrenault.com
V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH&LI CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

## PCT REQUEST

14149-12P CT

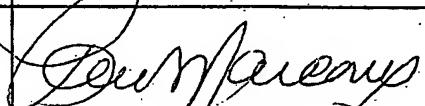
Original (for SUBMISSION) - printed on 29.07.2003 12:05:57 PM

V-5	<b>Precautionary Designation Statement</b>  In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.		
V-6	<b>Exclusion(s) from precautionary designations</b>	NONE	
VI-1	<b>Priority claim of earlier national application</b>		
VI-1-1	Filing date	29 July 2002 (29.07.2002)	
VI-1-2	Number	60/398,783	
VI-1-3	Country	US	
VII-1	<b>International Searching Authority Chosen</b>	European Patent Office (EPO) (ISA/EP)	
VIII	<b>Declarations</b>	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	<b>Check list</b>	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	5	-
IX-2	Description	22	-
IX-3	Claims	3	-
IX-4	Abstract	1	EZABST00.TXT
IX-5	Drawings	4	-
IX-7	<b>TOTAL</b>	35	
IX-8	<b>Accompanying items</b>	paper document(s) attached	electronic file(s) attached
IX-9	Fee calculation sheet	✓	-
IX-13	Original separate power of attorney <i>Original separate power of attorney</i>	✓ ✓	-
IX-17	Priority document(s)	Item(s) VI-1	-
IX-19	PCT-EASY diskette	-	Diskette
IX-19	Figure of the drawings which should accompany the abstract	None	

**PCT REQUEST**

14149-12PCT

Original (for SUBMISSION) - printed on 29.07.2003 12:05:57 PM

IX-20	Language of filing of the International application	English
X-1	Signature of applicant, agent or common representative	
X-1-1	Name	OGILVY RENAULT
X-1-2	Name of signatory	MARCOUX, Paul
X-1-3	Capacity	Patent Agent

**FOR RECEIVING OFFICE USE ONLY**

10-1	Date of actual receipt of the purported International application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported International application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

**FOR INTERNATIONAL BUREAU USE ONLY**

11-1	Date of receipt of the record copy by the International Bureau	
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## PCT (ANNEX - FEE CALCULATION SHEET)

Original (for SUBMISSION) - printed on 29.07.2003 12:05:57 PM

(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only			
0-1	International Application No.	PCT/CA 03 / 01146		
0-2	Date stamp of the receiving Office	29 JULY 2003 29.07.03		
0-4	Form - PCT/RO/101 (Annex) PCT Fee Calculation Sheet Prepared using	PCT-EASY Version 2.92 (updated 01.04.2003)		
0-9	Applicant's or agent's file reference	14149-12PCT		
2	Applicant	UNIVERSITÉ LAVAL, et al.		
12	Calculation of prescribed fees	fee amount/multiplier	Total amounts (CAD)	
12-1	Transmittal fee T	⇒	200	
12-2-1	Search fee S	⇒	1 552	
12-2-2	International search to be carried out by EP			
12-3	International fee			
	Basic fee (first 30 sheets) b1	7.30		
12-4	Remaining sheets	5		
12-5	Additional amount (X)	17		
12-6	Total additional amount b2	85		
12-7	b1 + b2 = B	815		
12-8	Designation fees			
	Number of designations contained in International application	97		
12-9	Number of designation fees payable (maximum 5)	5		
12-10	Amount of designation fee (X)	157		
12-11	Total designation fees D	785		
12-12	PCT-EASY fee reduction R	-224		
12-13	Total International fee (B+D-R) I	⇒	1 376	
12-17	<b>TOTAL FEES PAYABLE (T+S+I+P)</b>	⇒	3 128	
12-19	Mode of payment	other: VISA account in the name of France J. Côté		
12-20	Deposit account instructions The receiving Office:	Canadian Patent Office (RO/CA)		
12-20-2	Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.	✓		
12-20-3	Authorization to charge the fee for priority document.	✓		
12-21	Deposit account No.	600000257		
12-22	Date	29 July 2003 (29.07.2003)		

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## PCT (ANNEX - FEE CALCULATION SHEET)

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12-23	Name and signature
	OGILVY RENAULT <i>Dewitt Ogilvy</i>

## VALIDATION LOG AND REMARKS